

South Dakota School of Mines & Technology: Spring 2023, Design Fair Project List

Location	Project Description	Department(s)
1	Robot Assisted Cavity Filling	BME
2	Baja SAE LineDrive	ME, CAMP
3	SAE Aero Design: Project Thunderbird	ME
4	IISE North Central Regional Conference	IENG
5	L3 Magnetic Damping	ME
6	Spaceport America Cup	ME
7	Formula Combustion	ME
8	B-17 Systems Integration	EE
9	CUTS	EE
10	WREA Flicker Tester	EE
11	Cosmic Ray Detector	ME, EE
12	Beetho-Van	ME
13	PLA Recycler	ME, CHEME
14	PLA Recycler	ME, CHEME
15	Moonrockers	CSC, CENG, EE, ME
16	Moonrockers	CSC, CENG, EE, ME
17	Project Blitzkrieg	CENG, CSC
18	DCI	CENG, CSC, MET
19	Drift Trike Enhancement	ME
20	Distill	CSC
21	Feasibility of Cyanide Addition for Gold Elution	MET
22	Vishay Design Team	MET
23	Ellsworth AFB Dormitory Warehouse Project	IENG
24	A&J Screening Process Improvement	IENG
25	CM Wing	CEE
26	MI Building to CAMP	CEE
27	Silver City Creek Erosion	CEE
28	Western Dakota Tech Dormitory	CEE
29	PaxiCab V2	EE, ME
30	Modular Video Game Controller	CSC, CENG
31	Arctic Grubby	ME
32	Hydroponic Shipping Container System	CEE
33	CM Roof Team	CEE
34	The Salvation Army Community Garden	CEE
35	King Center Parking Lot Expansion	CEE
36	Modular Stage Assembly for Biocompatible Resin 3D Printer	BME
37	Nevada Gold Mines Elution Project	MET
38	Design of an Evaluation Procedure to Predict Creep Failure of High-Temperature Nickel-Based Superalloy René 65	MET
39	Pacer Design Project	MET
40	Prolonging Ceramic Coatings for the Pressure Counter Pressure Casting Process (PCCPCPCP)	MET
41	Hydrologic Modeling of the Shallow Alluvial Aquifer along Rapid Creek above Canyon Lake Rapid City	GEOE
42	Hydrologic Modeling of the Shallow Alluvial Aquifer along Rapid Creek in West Rapid City	GEOE
43	USD: Preventing glove tears and hand Injuries for Orthopedic Arthroscopic Knot Tying	BME
44	Graffiti Bot 2.0	ME
45	NIST Senior Design Project	BME
46	Formula EV	ME,EE
47	Score-Score	CSC
48	Malcolm	CSC
49	Cattle Futures	CSC
50	Midland Scientific Inventory Forecasting	CSC
51	Rapid City Library - Noise Mitigation	IENG
52	Grassroots Design of Cumene Process: Alternative Isopropanol Chemistry	CBE
53	PREN	CSC, CENG
54	Case IH Mid-Range Rotary Simulator	CSC, CENG
55	Vulnerability Analyzer	CSC
56	Signed Up Sports	CSC
57	ChemE Study Abroad Advanced Design Project	CBE
58	Hydrogenation Plant for Pentane Production in Germany	CBE
59	Decreasing Operating Cost of Cumene Process with Liquid Phase Reaction Kinetics	CBE
60	Liquid-phase alkylation and transalkylation for cumene production: reducing raw material and benzene recycle costs	CBE
61	Gas Phase Kinetics With Double Effect Separation For Cumene Production	CBE
62	Gas-phase alkylation of benzene to cumene with transalkylation of undesired biproduct	CBE
63	SMARK	ME

BALLROOM

